

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P06375PC00/PJ		FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/SE2003/001515	International filing date (<i>day/month/year</i>) 30.09.2003	Priority date (<i>day/month/year</i>) -	
International Patent Classification (IPC) or national classification and IPC H04Q 7/34			
Applicant Telefonaktiebolaget LM Ericsson et al			

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:

a. ☐ (*sent to the applicant and to the International Bureau*) a total of _____ sheets, as follows:

☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (*sent to the International Bureau only*) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items:

☒ Box No. I Basis of the report

☐ Box No. II Priority

☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

☐ Box No. IV Lack of unity of invention

☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

☐ Box No. VI Certain documents cited

☐ Box No. VII Certain defects in the international application

☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 08-04-2005	Date of completion of this report 05-10-2005
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer Catharina Karlsson Telephone No. +46 8 782 25 00

Box No. I Basis of the report

1. With regard to the language, this report is based on:



the international application in the language in which it was filed

a translation of the international application into _____,
which is the language of a translation furnished for the purposes of:

international search (Rules 12.3(a) and 23.1(b))



publication of the international application (Rule 12.4(a))



international preliminary examination (Rules 55.2(a) and/or 55.3(a))

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

the international application as originally filed/furnished



the description:

pages _____ as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____



the claims:

pages _____ as originally filed/furnished

pages* _____ as amended (together with any statement) under Article 19

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____



the drawings:

pages _____ as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____



a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

the description, pages _____



the claims, Nos. _____



the drawings, sheets/figs _____

the sequence listing (*specify*): _____any table(s) related to the sequence listing (*specify*): _____4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

the description, pages _____



the claims, Nos. _____



the drawings, sheets/figs _____

the sequence listing (*specify*): _____any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-31</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-31</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-31</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

The present invention aims to reduce the load of measurement reports in the interface between a control unit and an access point in mobile communication system. The control point requests the number of links handled by the access point. A frequency for periodical reporting of measurement report from the access point to control point is based on information of said number of links.

Reference is made to the following documents:

D1: US 6445917 B1

D2: WO 02073887 A2

D3: US 6473624 B1

D1 relates to controlling the frequency of the mobile station measurement reports to the radio network, (column 2 lines 65 - column 3 line 15).

D2 discloses that an access point controls the load in the interface between the control point and the access point, (abstract).

D3 related to base stations reporting their actual power levels to a radio network controller, (page 6 lines 46-67)

D1 and D2 relates to MBMS context establishment. The documents do not give any suggestions of establishing a user equipment specific MBMS context and a MBMS CRNC context at separate times a UE.

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: BOX V

D3 relates to a method and an arrangement for broadcasting group messages in a packet radio network.

Reasoned statement

Document D2 is considered to represent the most relevant state of the art

The invention differs from D2 in that the control unit requests the access point to transmit measurement reports with a frequency. This frequency is based on the number of links handled by the access point and the total capacity of the interface.

This solution solves the problem that different subunits in the control unit may request measurement reports at different frequencies.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method of and apparatuses for reporting measurements. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-31 is novel and is considered to involve an inventive step. The invention is industrially applicable.